

SAFETY DATA SHEET

1. Identification

Product identifier	MICORE® 160 Mineral Fiber Board
Other means of identification	
SDS number	41263510001
Additional Products	MICORE® 300, MICORE® PC
Synonyms	Mineral Fiber Panel, Micore Panel
Recommended use	Interior use.
Recommended restrictions	Use in accordance with manufacturer's recommendations.
Manufacturor/Importor/Supplier/	Distributor information

Manufacturer/Importer/Supplier/Distributor information

Company name	USG Interiors, LLC	
Address	550 West Adams Street	
	Chicago, Illinois 60661-3637	
Telephone	1-800-874-4968	
Website	www.usg.com	
Emergency phone number	1-800-507-8899	

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 1A
	Specific target organ toxicity, repeated exposure	Category 2 (Lung)
OSHA defined hazards	Not classified.	

OSHA defined hazards

Label elements



Signal word	Danger
Hazard statement	May cause cancer. May cause damage to organs (lung) through prolonged or repeated exposure by inhalation.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust.
Response	If exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Slag wool fiber	N/A	< 40
Perlite	93763-70-3	< 30

Kaolin		1332-58-7	< 20
Starch		9005-25-8	< 20
Cellulose		9004-34-6	< 20
Impurities Chemical name		CAS number	%
Crystalline silica (Quartz)		14808-60-7	≤2
Composition comments	All concentrations are in percent by weight.		
	Raw materials in this product contain respirable percent of respirable crystalline silica found in th crystalline silica during the normal use of this pro testing.	is product is ≤ 2%. Exposu	ires to respirable
	Raw materials and/or coatings in this product co been classified as possibly carcinogenic to huma Cancer (IARC). However, per IARC "no significa is thought to occur during the use of products in such as in paints" (1). See Section 16 for further	ans by the International Ag nt exposure to primary par which titanium dioxide is b	ency for Research or ticles of titanium dic
4. First-aid measures			
Inhalation	Dust irritates the respiratory system, and may ca injured person into fresh air and keep person cal symptoms persist.		
Skin contact	Contact with dust: Rinse area with plenty of wate persists.	er. Get medical attention if	irritation develops o
Eye contact	Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.		
ngestion	Rinse mouth. Get medical attention if symptoms	occur.	
Most important symptoms/effects, acute and delayed	Under normal conditions of intended use, this product is not expected to be a health risk. Dust ma irritate throat and respiratory system and cause coughing.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat s	symptomatically.	
General information	Ensure that medical personnel are aware of the	material(s) involved.	
5. Fire-fighting measures			
Suitable extinguishing media	Use fire-extinguishing media appropriate for surr	ounding materials.	
Unsuitable extinguishing media	Not applicable.		
Specific hazards arising from the chemical	Not a fire hazard.		
Special protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting the workplace. Self-contained breathing apparate case of fire.		
Fire fighting equipment/instructions	Use standard firefighting procedures and conside	er the hazards of other inv	olved materials.
Specific methods	Cool material exposed to heat with water spray a	and remove it if no risk is ir	volved.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	See Section 8 of the SDS for Personal Protective	e Equipment.	
Methods and materials for containment and cleaning up	No specific clean-up procedure noted. For waste	disposal, see Section 13	of the SDS.
Environmental precautions	Avoid discharge to drains, sewers, and other wa	ter systems.	

7. Handling and storage

Precautions for safe handling

Use work methods which minimize dust production. Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

U.S OSHA Components	Туре	Value	Form
Slag wool fiber	TWA	5 mg/m3	Fiber, respirable (diameter ≤ 3.5 µm and length ≥ 10 µm)
		15 mg/m3	Fiber, total
US. OSHA Specifically Regulated S Components	Substances (29 CFR 1910.1001-1053) Type	Value	
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3	
US. OSHA Table Z-1 Limits for Air (
Components	Туре	Value	Form
Cellulose (CAS 9004-34-6)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Kaolin (CAS 1332-58-7)	PEL	5 mg/m3	Respirable fraction.
, ,		15 mg/m3	Total dust.
Starch (CAS 9005-25-8)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910.	1000)	i e mg.me	
Components	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Perlite (CAS 93763-70-3)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Values			•
Components	Туре	Value	Form
Cellulose (CAS 9004-34-6)	TWA	10 mg/m3	
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Slag wool fiber	TWA	1 fibers/cm3	Fiber, respirable (length > 5 µm and aspect ratio ≥ 3:1)
Starch (CAS 9005-25-8)	TWA	10 mg/m3	,
US. NIOSH: Pocket Guide to Chemi	ical Hazards		
Components	Туре	Value	Form
Cellulose (CAS 9004-34-6)	TWA	5 mg/m3 10 mg/m3	Respirable. Total
Crystalline silica (Quartz)	TWA	0.05 mg/m3	Respirable dust.
(CAS 14808-60-7)		0.05 mg/ms	περμανίε αυδί.
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable.

US.	NIOSH:	Pocket	Guide to	Chemical	Hazards
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US. NIOSH: Pocket Guide Components	Туре	Value	Form
Perlite (CAS 93763-70-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Slag wool fiber	TWA	3 fibers/cm3	Fiber, respirable (diameter ≤ 3.5 µm and length ≥ 10 µm)
		3 fibers/cm3	Fibrous dust.
		5 mg/m3	Fiber, total
Starch (CAS 9005-25-8)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Biological limit values	No biological exposure limits noted for the	ne ingredient(s).	
Appropriate engineering controls	Provide sufficient ventilation for operatio exposure limits and minimize the risk of minimize dust levels. If a router is used i power cutting, power kerfing or using co See Section 16 for further information.	exposure. Cut and trim with a trim the a trim with a trian to the second seco	utility knife or hand saw to system. Operations such as
Individual protection measures	s, such as personal protective equipment	t	
Eye/face protection	Wear approved safety goggles.		
Skin protection			
Hand protection	It is a good industrial hygiene practice to contact use suitable protective gloves.	minimize skin contact. For p	rolonged or repeated skin
Skin protection			
Other	Normal work clothing (long sleeved shirt	s and long pants) is recomme	ended.
Respiratory protection	If engineering controls do not maintain a limits (where applicable) or to an accepta been established), an approved respirate purifying respirator as needed to control determine respirator selection, use, and for uncontrolled releases or when air pur respirator protection program requiremen use.	able level (in countries where or must be worn. Use a NIOS exposure. Consult with respin limitations. Use positive prese rifying respirator limitations m	exposure limits have not H/MSHA approved air rator manufacturer to sure, air-supplied respirator ay be exceeded. Follow
Thermal hazards	None.		
General hygiene considerations	Always observe good personal hygiene and before eating, drinking, and/or smok equipment separately from regular wash	king. Routinely wash work clo	thing and protective

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Panel.
Color	Gray/brown.
Odor	Low to no odor.
Odor threshold	Not applicable.
рН	9
Melting point/freezing point	2200 °F (1204.44 °C) (Slag wool)
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not applicable.

Explosive limit - upper (%)	Not applicable.	
Vapor pressure	Not applicable.	
Vapor density	Not applicable.	
Relative density	0.29 - 0.37 (H2O=1)	
Solubility(ies)		
Solubility (water)	Very low solubility in water.	
Partition coefficient (n-octanol/water)	Not applicable.	
Auto-ignition temperature	Not applicable.	
Decomposition temperature	Not applicable.	
Viscosity	Not applicable.	
Other information		
Bulk density	18 - 23 lb/ft³	
VOC	0 %	

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Inhalation of dusts may cause respiratory irritation.
Skin contact	May cause irritation through mechanical abrasion.
Eye contact	Direct contact with airborne particulates may cause temporary irritation.
Ingestion	Ingestion may cause irritation and stomach discomfort.
Symptoms related to the physical, chemical and toxicological characteristics	Under normal conditions of intended use, this material does not pose a risk to health.

Information on toxicological effects

Acute toxicity	Not expected to be a hazard under normal conditions of intended use.	
Components	Species	Test Results
Kaolin (CAS 1332-58-7)		
Acute		
Dermal		
LD50	Rat	> 5000 mg/kg
Inhalation		
LC50	Rat	> 2 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
Starch (CAS 9005-25-8)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Rat	> 50000 mg/kg
Skin corrosion/irritation	Prolonged skin contact m	ay cause temporary irritation.

Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitizatior	1		
Respiratory sensitization	No data available, but none expected.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available, but none expected.		
Carcinogenicity	Repeated and prolonged exposures to high levels of respirable crystalline silica may cause cancer.		
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
Crystalline silica (Quartz) NTP Report on Carcinogens		1 Carcinogenic to humans.	
Crystalline silica (Quartz) OSHA Specifically Regulate	(CAS 14808-60-7) d Substances (29 CFR 1910.10	Known To Be Human Carcinogen. 001-1053)	
Crystalline silica (Quartz)	(CAS 14808-60-7)	Cancer	
Reproductive toxicity	No data available, but none ex	kpected.	
Specific target organ toxicity - single exposure	No data available, but none ex	kpected.	
Specific target organ toxicity - repeated exposure	May damage lung tissue through repeated and prolonged exposure to high levels of respirable crystalline silica particles.		
Aspiration hazard	Due to the physical form of the product it is not an aspiration hazard.		
Chronic effects	Prolonged and routine inhalation of high levels of respirable crystalline silica particles can lead to the lung disease known as silicosis. Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica. Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.		

12. Ecological information

Ecotoxicity	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent releases can have a harmful or damaging effect on the environment.		
Components		Species	Test Results
Kaolin (CAS 1332-58-7)			
Aquatic <i>Acute</i> Crustacea	LC50	Daphnia magna	> 1.1 g/l, 48 Hours
Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects	No data is available on the degradability of this product. Bioaccumulation is not expected. No data available. None expected.		ility of this product.

13. Disposal considerations

Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of in accordance with local regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC code. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Crystalline silica (Quartz) (CAS 14808-60-7) Cancer lung effects immune system effects kidney effects Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes chemical Classified hazard Carcinogenicity Specific target organ toxicity (single or repeated exposure) categories SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Not regulated. Safe Drinking Water Act (SDWA) **US state regulations US. Massachusetts RTK - Substance List** Cellulose (CAS 9004-34-6) Crystalline silica (Quartz) (CAS 14808-60-7) Kaolin (CAS 1332-58-7) Perlite (CAS 93763-70-3) Starch (CAS 9005-25-8) US. New Jersey Worker and Community Right-to-Know Act Cellulose (CAS 9004-34-6) Crystalline silica (Quartz) (CAS 14808-60-7) Kaolin (CAS 1332-58-7) Perlite (CAS 93763-70-3) US. Pennsylvania Worker and Community Right-to-Know Law Cellulose (CAS 9004-34-6) Crystalline silica (Quartz) (CAS 14808-60-7) Kaolin (CAS 1332-58-7) Perlite (CAS 93763-70-3) Starch (CAS 9005-25-8) **US. Rhode Island RTK** Cellulose (CAS 9004-34-6) MICORE® 160 Mineral Fiber Board 918027 Version #: 02 Revision date: 13-December-2017 Issue date: 19-December-2014

SDS US 7/9 Crystalline silica (Quartz) (CAS 14808-60-7) Kaolin (CAS 1332-58-7) Slag wool fiber (CAS N/A) Starch (CAS 9005-25-8)

California Proposition 65



WARNING: WARNING: This product contains a chemical known to the State of California to cause cancer. This product can expose you to Crystalline silica (Quartz), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline silica (Quartz) (CAS 14808-60-7)

Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Crystalline silica (Quartz) (CAS 14808-60-7)

International Inventories

Country(s) or region	Inventory name
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory

On inventory (yes/no)*

No

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	19-December-2014
Revision date	13-December-2017
Version #	02
Further information	Crystalline silica: Raw materials in this product may contain respirable crystalline silica as an impurity. Exposures to respirable crystalline silica are not expected during the normal use of this product. However, actual levels must be determined by workplace hygiene testing. Industrial hygiene testing by RJ Lee Group showed that cutting with a utility knife or a router equipped with a dust collection system did not produce airborne respirable crystalline in exceedance of OSHA PELs. However, cutting with a power saw, even with a dust collection system in place, did produce some exceedances. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.
	Slag Wool Fiber: Large morbidity and mortality studies of both European and North American mineral wool manufacturing workers have been conducted. These studies have found no significant association of non-malignant (i.e. fibrosis) or malignant (i.e., lung cancer or mesothelioma) lung disease and exposures to slag wool fibers and have not established a causal relationship between exposure and non-malignant or malignant diseases. In 2001, the International Agency for Research on Cancer (IARC) assigned slag wool fiber to the Group 3 category ["not classifiable as to carcinogenicity to humans"]. The synthetic mineral fiber used in this product is exonerated from classification as a carcinogen in accordance with Note Q in the EU Commission Directive 97/69/EC.
	Titanium dioxide: Raw materials and/or coatings in this product contain small amounts of titanium dioxide. The International Agency for Research on Cancer (IARC) has determined that titanium dioxide is possibly carcinogenic to humans (Group 2B) based on inadequate evidence in humans and sufficient evidence in experimental animals. This conclusion relates to long-term inhalation exposure to high concentrations of pigmentary (powdered) or ultrafine titanium dioxide. However, no significant exposure to primary particles of titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints. The available human studies do not suggest an association between occupational exposure to titanium dioxide and risk for cancer (1). The American Conference of Governmental Industrial Hygienists (ACGIH) has designated this chemical as not classifiable as a human carcinogen (A4). The US National Toxicology Program (NTP) has not listed this chemical in its report on carcinogens.
	NFPA Ratings: Health: 1 Flammability: 0 Physical hazard: 0
	Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS® ratings

NFPA ratings

Health: 1* Flammability: 0 Physical hazard: 0



References1.) International Agency for Research on Cancer (IARC). Volume 93: Carbon Black, Titanium
Dioxide, and Talc; (5. Summary of data reported). IARC, 2010. Available at:
<http://monographs.iarc.fr/ENG/Monographs/vol93/mono93.pdf>
2.) North American Insulation Manufacturer's Association (NAIMA). Working Smart with Fiber
Glass, Rock Wool and Slag Wool Products. NAIMA, 2007. Available at:
<http://insulationinstitute.org/wp-content/uploads/2016/02/N059.pdf>DisclaimerThis information is provided without warranty. The information is believed to be correct. This
information should be used to make an independent determination of the methods to safeguard
workers and the environment.